



## Completely FREE 2D CAD System



Draft IT is a free CAD software application. It is a powerful and easy-to-use 2D CAD system suitable for all users, in the office or at home.


- Create, print and save your own professional drawings.
- Easy to use - visual aids compliment all commands.
- Powerful drawing tools - lines arcs, circles etc. with dynamic dimensions.
- Dynamic editing functions with visual handles and snaps.
- It is completely FREE.
- Now choose from THREE low cost enhanced versions [Draft IT PLUS](#) and [DRAFT IT PRO](#) & [Draft IT Architectural](#) (See <http://www.cadlogic.com>)
- Contact CADlogic to discuss how you can use Draft IT as the basis for your [Custom CAD system](#).

### Drawing Settings

Draft IT has numerous drawing settings, for example you can set the Units to Millimetres, Centimetres, Metres, Decimal Inches, Fractional Inches, Decimal Feet / Inches, Fractional Feet / Inches. In addition to this numerous standard sheet sizes (A0 Plus, A0 A1, A2, A3, A4, A5 & A6) and scales (including: 500:1, 1:1, 1:50, 1:100, 1:500 etc) are available.

### Snaps and input options

Draft IT's easy to use snapping and co-ordinate input make drawing construction an almost effortless process. When 'X,Y' is set  the system displays dynamic dimensions from the previous point so you can visually check distances/sizes, or you can type in sizes directly. The 'Polar'  setting works in the same way except the dynamic dimensions display the next position by angle and length. The increment of the dimensions is user definable.

Alternatively you can snap  to end points, mid points, intersections etc. where Draft IT identifies the type of snap as the cursor passes over it. Keyboard snaps allow you to use the 'E', 'M', 'P' & 'T' keys to force End, Middle, Perpendicular and Tangent points/positions.

## PRODUCT FEATURES

### Commands

The following is a list of the commands available in Draft IT.

#### DRAW



Arc



Circle



Line



Rectangle



Text



Linear dim'



Diameter dim'



Radial dim'



Angular dim'



Leader arrow



Double end arrow

#### MODIFY



Move



Copy



Mirror



Rectangular array



Polar array



Rotate



Scale



Trim/Extend



Offset



Fillet



Chamfer

#### SYSTEM



Open



Save



Print



Print Preview



Undo



Redo



Grid



Zoom in



Zoom out



Zoom previous



Zoom next



Zoom window



Zoom full page



Zoom extents



Pan



Nearest



Refresh



Help



Snap (F7)



X, Y (F8)



Polar (F8)



Distance












Scale factor

# DRAFT IT PLUS

## PRODUCT FEATURES

### Low cost upgrade for Draft IT

Draft IT PLUS contains all of the features included in the FREE Draft IT system and the following.


- Ellipse**  – Easily add ellipses to your drawings, simply indicate the point, followed by points to define both the major and minor axis.
- Hatch**  – Add hatching to closed areas (Polylines), specify hatch angle, pitch and choose from single, double and cross style hatching.
- Insert symbol**  – Create symbols from all or part of your drawing for insertion onto other drawings.
- Polyline**  – Draw Polylines easily alternating between line and arc (with variable radii) segments. You can also undo previously drawn segments.
- Polygon**  – Add Polygons with control over the number of sides. The inscribed option controls whether the radius value is to the flat side or to a corner point.
- X snap & Y Snap** – Allows selection of 'X' and 'Y' points separately simply using the X & Y keys. Simply hit 'X' or 'Y' over a snap point to temporarily fix that axis.
- Drawing Templates** – Save standard layouts and settings as template files. Create drawing templates of your favoured sheet sizes, units, scales etc.
- Multiple Document Interface** – Open multiple documents and copy & paste between them. Open drawings are easily accessed via 'tabs' beneath the drawing.
- Line Thickness** – Specify line thickness for display and printing. Improve drawing presentation by assigning line thickness's to different drawing colours.
- Layers** – Create and manage drawing layers. Add your own drawing layers specifying colour and linestyle. Switch individual layers on/off and set print/not print.
- Break**  – Break an entity into two separate entities; indicate the break point as a distance from one end or via a snap point (e.g. Intersection).
- Hatch View Toggle** – Switch the display of Hatching on and off for improved clarity.
- Polyline Area Calculation** – Find the area of closed Polylines using the info command. Display a Polyline area in the current units.
- Datum Dimensions** – Add Datum dimensions to your drawings. Set a dimension datum and then reference dimensions.
- Explode**  – Break Hatching, Polygons, Polylines, Symbols & Ellipses apart into multiple entities for detail editing.
- Build Polyline**  – Create a Polyline from existing entities. Group a set of end to end joined entities as a polyline.
- Set Insertion Origin** – Specify the insertion origin point of symbols. The current insertion point is displayed allowing a new origin to be easily defined.
- Entity Info** – Display properties of individual entities. Display the layer, colour, style and point information of any entity type.
- Stretch**  – Stretch a group of entities. Speed up editing by manipulating the length of multiple entities in one operation.
- Measure** – Measure the distance between two points. Obtain the straight line distance between two points in the current units.
- Direction Input** – Use the keyboard arrow keys to force orthogonal direction input. Simply select the any arrow key and type the required distance.

### Professional upgrade for Draft IT

Draft IT PRO contains all of the features included in Draft IT PLUS and the FREE Draft IT system as well as the following.

**Import** – Import DWG and DXF files. Insert drawings created in other CAD systems into your designs.

**Export** – Export DWG, DXF and PDF files. Export your designs in a number of formats, DWG and DXF for other CAD systems and PDF for non-CAD users.

**Area fill**  – Fill areas with a solid colour. Add any solid fill colour to closed polylines on your drawings.

**Insert Image**  – Place images onto drawings. Insert Raster (Bitmap images) onto your drawings. Supported formats are BMP and JPEG.

**Selection Filters** – Select entities type and property. Any type(s) line, arc, dimension etc. in combination with colour, style etc. can be selected in one 'hit'.

**Additional Pens** – Add more pens (default = 15, maximum = 125). Improve drawing presentation with more drawing colours and line thickness's.

**Attribute** – Attributes allow variable text to be added to symbols. For example add a title to a drawing block as it is inserted.

**Area Fill View Toggle** – Switch the display of Area fills on and off for improved clarity.

**Text Special Characters** – Add non-keyboard characters to text strings. Characters include: Ø, ±, °, ², ³, ¼, ½, ¾, ©, ®


**Advanced Symbol Features** – More powerful symbol handling. For example open and edit a symbol from within a drawing it is inserted into.

**Isometric Grid** – Define an Isometric grid. The standard grid function is extended to allow an isometric grid (30°). The grid spacing can still be defined.

**Named Views** – You can store frequently viewed areas (by name) to assist in quick drawing navigation.

**Trim**  – Trim or Extend lines/arcs to other entities. Select one or multiple trimming boundaries and trim/extend other entities to these boundaries.

**Hatch pattern**  – Fill Polylines with pre-defined hatch patterns. Almost 50 different hatch patterns including brick, earth, roof tile, stone.














**Symbol libraries**  – \*\*Select from hundreds of pre-drawn symbols, inc. Mechanical, Pneumatic, Hydraulic, and various Electrical/Electronic.

**Drawing Properties** – Store drawing related information drawing number, title, revision etc. These values can be accessed by the text function.

\*\* The symbol libraries are not included in the standard installation, they are available via a download from the CADlogic website.

### Architectural upgrade for Draft IT

Draft IT Architectural contains all of the features included in Draft IT PRO, Draft IT PLUS, the FREE Draft IT system as well as the following.

-  **Walls** - Easy to use wall drawing in various styles (Cavity: - Brick/Block, Block/Block, Stone/Block, Brick/Brick. Single: - Block, Stud).
-  **Doors** - Insert doors into walls with openings created automatically. Define the sizes of Single, Double, Garage and Sliding doors.
-  **Windows** - Insert windows into walls with openings created automatically. Define the sizes of Standard and Bay Windows.
-  **Openings** - Insert Structural openings into walls.
-  **Staircases** - Create Straight, Quarter-turn and Half-turn staircases at pre-defined or you own sizes
-  **Roofs** - Place Gable and Hipped roofs onto walls with control of various parameters. Roof intersections easily calculated with the tee-in feature.
-  **Electric symbols** - Electrical symbol library including lighting, sockets. Meters, switches, fire, electrical supply etc.
-  **Furniture symbols** - Furniture symbol library for commercial and domestic applications including sofas, chairs, tables, desks, beds, office equipment.
-  **Heating symbols** - Heating symbol library including radiators, meters, pumps, fans, ducting etc.
-  **Kitchen symbols** - Kitchen symbol library including sinks, kitchen units, cookers, hobs, ovens, fridges, freezers, dishwashers etc.
-  **Landscape symbols** - Landscape symbol library including trees, plants, people, cars, vans, hgv, buses, trailers etc.
-  **Plumbing symbols** - Plumbing symbol library including wc's, bidets, basins, baths, etc.
-  **Section symbols** - Section symbol library including full wall sections, foundation, doors, windows, walls, sills, headers, eaves, cladding etc.